

**From:** Richard Rupert/R3/USEPA/US  
**Sent:** 7/11/2012 12:22:03 PM  
**To:** "Graves, Suddha" <Sgraves@TechLawInc.com>  
**CC:**  
**Subject:** Fw: EXTERNAL: dimock flied data

FYI

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"The commander in the field is always right and the rear echelon is wrong, unless proved otherwise."  
Colin Powell

----- Forwarded by Richard Rupert/R3/USEPA/US on 07/11/2012 12:21 PM -----

**From:** Ex. 4 - CBI  
**To:** Richard Rupert/R3/USEPA/US  
**Date:** 07/11/2012 10:58 AM  
**Subject:** RE: EXTERNAL: dimock flied data

Rich,

Indeed, my cheapo thermometer is OFF by just about 10 degree F. Here are the comparative readings I got against a calibrated thermometer.

Dial Thermometer (F)	Calibrated Thermometer (DigiSense) (F)	Differential (F)
22	32 (in an Ice Water Bath)	-10
45	55.58	-10.58
69	79.16	-10.16

In short, the thermometer I used was under-reading the temperature by 10 F. The water temperature at the well head that we read as 46 F on one instance should have been more like 56 F. At around 11:35 am, after the TechLaw team had finished sampling the well, Dave and I collected a few more CH4 readings, to compare the results of the TVA 1000 and the GEM 2000 (the landfill gas meter). At that time the dial thermometer read 41 F (which should have been 51 F). Conclusion: The temperature readings that the START team collected should be good.

**Ex. 4 - CBI**

**From:** Richard Rupert [mailto:Rupert.Richard@epamail.epa.gov]  
**Sent:** Wednesday, July 11, 2012 9:24 AM  
**To:** Ex. 4 - CBI  
**Subject:** RE: EXTERNAL: dimock flied data

also, do you think you could take some readings with your thermometer and see how it compares... START said their instrument indicated the well water at 12.04 C (53) when they started purging. I remember your thermometer reading more like about 45 F.

Maybe I memory has failed yet again...?

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From: **Ex. 4 - CBI**  
To: Richard Rupert/R3/USEPA/US  
Date: 07/10/2012 01:40 PM  
Subject: RE: EXTERNAL: dimock flied data

Greetings & Namaste – Rich,

It was indeed a great pleasure meeting and working with you.

Indeed all is well. Hope you had some relaxing time with your family over the holiday last week. I had taken Thurs & Friday off to spend time with my family.

As we speak, I am working on organizing my notes and data. I will get it to you as soon as it is ready, in a couple of days.

I will call you on Thursday.

Thanks

**Ex. 4 - CBI**

**From:** Richard Rupert [<mailto:Rupert.Richard@epamail.epa.gov>]  
**Sent:** Tuesday, July 10, 2012 1:28 PM  
**To:** **Ex. 4 - CBI**  
**Subject:** EXTERNAL: dimock flied data

Namaste **Ex. 4 - CBI**

Hope all is well.

I need the data you collected during our field activities at Dimock. We seemed to have gotten wildly different concentrations of Mn in our treated samples so I am forensically now trying to figure out an explanation. The methane is not critical for now. I am mostly interested in temperatures and other measurements you recorded at the taps and by pass and well head.

Could you please as soon as possible record your measurements into a spread sheet and forward them to me?

thanks, please give me a call if you want to talk about this whole endeavor.

Rich

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